

Safety Data Sheet

Report No.: P31767/H250228-386EN

Date: March 06.2025

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Design Report of Safety Data Sheet (SDS)

Sample Name: SINTERING PASTE

Type/Model: /

Entrust Unit: SHENZHEN XIANGTONG CO.,LTD.

Audited by:

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Sintering Paste

*According to GHS (Tenth Revised Edition)

SDS

Section 1 Identification of the chemical and supplier

♦ Product identifier

Product Name Sintering Paste

Product Model -

CAS No. Not applicable

EC No. Not applicable

Molecular Formula Not applicable

♦ Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Please consult the manufacturer.

Uses advised against Please consult the manufacturer.

♦ Details of the supplier of the Safety Data Sheet

Applicant Name SHENZHEN XIANGTONG CO.,LTD.

Applicant Address 1101, Block B, Building 7, International Innovation Valley, Dashi Yi Road, Xili Sub-district, Nanshan District, Shenzhen, 518055 Guangdong, P.R. China

Applicant Telephone +86-13543655276

Applicant Fax -

Applicant E-mail huangjiah@xianton.com

Supplier Name SHENZHEN XIANGTONG CO.,LTD.

Supplier Address 1101, Block B, Building 7, International Innovation Valley, Dashi Yi Road, Xili Sub-district, Nanshan District, Shenzhen, 518055 Guangdong, P.R. China

Supplier Telephone +86-13543655276

Supplier Fax -

Supplier E-mail huangjiah@xianton.com

♦ Emergency phone number

Emergency phone number +86-13543655276

Section 2 Hazards identification

♦ Hazard classification according to GHS

Hazard classification according to GHS Not applicable

♦ GHS Label elements

Hazard pictograms Not applicable

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Signal word		Not applicable	
◆	Hazard statements		
Hazard statements		Not applicable	
◆	Precautionary statements		
▲	Prevention		
Prevention		Not applicable	
▲	Response		
Response		Not applicable	
▲	Storage		
Storage		Not applicable	
▲	Disposal		
Disposal		Not applicable	
◆	Hazard description		
▲	Physical and chemical hazards		
Physical and chemical hazards		Liquid, fire will produce toxic smoke.	
▲	Health hazards		
Inhaled		Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.	
Ingestion		Accidental ingestion of the product may be harmful to the health of the individual.	
Skin Contact		Through cuts, abrasions or lesions into the blood, may produce harmful effects of systemic injury.	
Eye		Direct eye contact may cause temporary discomfort.	
▲	Environmental hazards		
Environmental hazards		Please refer to 12th chapter of SDS.	
Section 3 Composition/information on ingredients			
◆	Substance / mixture		
		<input type="checkbox"/> Substance	<input checked="" type="checkbox"/> mixture
Component	Cas No.	EC No.	Concentration (weight percent, %)
H2O	7732-18-5	231-791-2	70-80
SiO2	14808-60-7	238-878-4	20-30
Al2O3	1344-28-1	215-691-6	
(C6H10O5)n	9004-34-6	232-674-9	5-8

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H(OCH2CH2)nOH		25322-68-3	500-038-2	1-3
Section 4 First aid measures				
♦	Description of first aid measures			
	General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.		
	Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.		
	Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable		
	Ingestion	Never feed anything from the mouth to an unconscious person. Call the doctor immediately.		
	Inhalation	Move the patient to fresh air immediately. If breathing is difficult, give oxygen. See a doctor immediately.		
	Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.		
♦	Most important symptoms and effects, both acute and delayed			
1	Please see section 11.			
♦	Indication of any immediate medical attention and special treatment needed			
1	Treat symptomatically.			
2	Symptoms may be delayed.			
Section 5 Firefighting measures				
♦	Extinguishing media			
	Suitable extinguishing media	Use extinguishing media suitable for surrounding area		
	Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.		
♦	Specific hazards arising from the substance or mixture			
1	Not combustible, not considered a significant fire risk, however containers may burn.			
♦	Special protective equipment and precautions for fire-fighters			
1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear			
2	Fight fire from a safe distance, with adequate cover.			
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.			
Section 6 Accidental release measures				
♦	Personal precautions, protective equipment and emergency procedures			
1	Use personal protective equipment,do not breathe gas/mist/vapour/spray.			
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.			
3	Quickly evacuate personnel to a safe area, away from the leakage area and in the upwind direction.			

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♦	Environmental precautions				
1	Prevent further leakage or spillage if safe to do so.				
2	Discharge into the environment must be avoided.				
♦	Methods and materials for containment and cleaning up				
1	In case of a small amount of leakage, dry sand or inert adsorption material can be used to absorb the leakage, and when a large amount of leakage is needed to build embankment to control.				
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.				
3	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.				
Section 7 Handling and storage					
♦	Precautions for handling				
1	Operate in good ventilation.				
2	Wear suitable protective equipment.				
3	Avoid contact with skin and eyes.				
4	Keep away from heat sources, sparks, open flames and hot surfaces.				
♦	Conditions for safe storage, including any incompatibilities				
1	Keep containers tightly closed.				
2	Keep containers in a dry, cool and well-ventilated place.				
3	Keep away from heat/sparks/open flames/hot surfaces.				
4	Store away from incompatible materials and foodstuff containers.				
Section 8 Exposure controls/personal protection					
♦	Control parameters				
▲	Occupational Exposure limit values				
Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
SiO ₂	Australia	-	0,05	-	-
	Belgium	-	0,1	-	-
	Ireland	-	0,1	-	-
	South Korea	-	0,05	-	-
	USA - NIOSH	-	0,05	-	-
Al ₂ O ₃	Australia	-	10	-	-
	Belgium	-	1	-	-
	Spain	-	1	-	-

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(C ₆ H ₁₀ O ₅) _n	Australia	-	10	-	-
	Belgium	-	10	-	-
	Ireland	-	10	-	-
	South Korea	-	10	-	-
	USA - NIOSH	-	10	-	-
H(OCH ₂ CH ₂) _n OH	Australia	-	1000	-	4000
	Denmark	-	1000	-	2000
	Germany (AGS)	-	200	-	400
	Switzerland		500	-	-
▲	Biological limit values				
	No information available				
▲	Monitoring methods				
1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.				
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard)				
▲	Engineering controls				
1	Ensure adequate ventilation, especially in confined areas.				
2	Ensure that eyewash stations and safety showers are close to the workstation location.				
3	Set up emergency exit and necessary risk-elimination area.				
4	Handle in accordance with good industrial hygiene and safety practice.				
▲	Personal protection equipment				
General requirement					
Eye protection		Must wear appropriate safety goggles.			
Hand protection		Must wear appropriate chemical protective gloves.			
Respiratory protection		Must wear appropriate personal respiratory protective equipment.			
Skin and body protection		Must wear appropriate Work clothes and shoes.			
Section 9 Physical and chemical properties					
◆	Physical and chemical properties				
Appearance			Paste		
Odor			Odorless		
pH			No information available/Not applicable		
Melting point/freezing point(°C)			No information available/Not applicable		

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Initial boiling point and boiling range(°C)		No information available/Not applicable		
Flash point(Closed cup,°C)		No information available/Not applicable		
Evaporation rate		No information available/Not applicable		
Flammability		Non-flammable		
Upper/lower explosive limits[% (v/v)]		No information available/Not applicable		
Vapor pressure(KPa)		No information available/Not applicable		
Vapor density(Air = 1)		No information available/Not applicable		
Relative density(Water=1)		No information available/Not applicable		
Solubility(mg/L)		Dissolve in water		
n-octanol/water partition coefficient		No information available/Not applicable		
Auto-ignition temperature(°C)		No information available/Not applicable		
Decomposition temperature(°C)		No information available/Not applicable		
Viscosity(mm2/s)		No information available/Not applicable		
Section 10 Stability and reactivity				
♦	Stability and reactivity			
Reactivity		Contact with incompatible substances can cause decomposition or other chemical reactions.		
Chemical stability		Stable under proper operation and storage conditions.		
Possibility of hazardous reactions		No information available		
Conditions to avoid		Incompatible materials, heat, flame and spark.		
Incompatible materials		Strong oxide, strong acid, strong base.		
Hazardous decomposition products		Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
Section 11 Toxicological information				
♦	Acute toxicity			
Component		LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
(C ₆ H ₁₀ O ₅) _n		> 5000mg/kg(Rat)	> 5000mg/kg(Rabbit)	> 5800mg/m ³ (Rat)
♦	Carcinogenicity			
Component		IARC	NTP	
H ₂ O		Not Listed	Not Listed	
SiO ₂		Category 1	Not Listed	
Al ₂ O ₃		Not Listed	Not Listed	
(C ₆ H ₁₀ O ₅) _n		Not Listed	Not Listed	

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H(OCH ₂ CH ₂) _n OH		Not Listed	Not Listed
◆	Others		
Skin corrosion/irritation		Based on available data, the classification criteria are not met	
Serious eye damage/irritation		Based on available data, the classification criteria are not met	
Skin sensitization		Based on available data, the classification criteria are not met	
Respiratory sensitization		Based on available data, the classification criteria are not met	
Reproductive toxicity		Based on available data, the classification criteria are not met	
STOT-single exposure		Based on available data, the classification criteria are not met	
STOT-repeated exposure		Based on available data, the classification criteria are not met	
Aspiration hazard		Based on available data, the classification criteria are not met	
Germ cell mutagenicity		Based on available data, the classification criteria are not met	
Section 12 Ecological information			
◆	Acute aquatic toxicity		
	No information available		
◆	Chronic aquatic toxicity		
	No information available		
◆	Persistence and degradability		
	No information available		
◆	Bioaccumulative potential		
	No information available		
◆	Mobility in soil		
	No information available		
◆	Results of PBT and vPvB assessment		
Component		Results of PBT and vPvB assessment (according to (EC) No 1907/2006)	
H ₂ O		not PBT/vPvB	
SiO ₂		not PBT/vPvB	
Al ₂ O ₃		not PBT/vPvB	
(C ₆ H ₁₀ O ₅) _n		not PBT/vPvB	
H(OCH ₂ CH ₂) _n OH		not PBT/vPvB	
Section 13 Disposal considerations			
Waste chemicals		Before disposal should refer to the relevant national and local laws and regulation. Preferably via a certified collector or company.	
Contaminated packaging		Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.	

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Disposal recommendations		Refer to section waste chemicals and contaminated packaging.								
Section 14 Transport information										
◆	Label and Mark									
Transporting Label		Not applicable								
◆	IMDG-CODE									
IMDG-CODE		NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS								
◆	IATA-DG									
IATA-DGR		NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS								
◆	UN-ADR									
UN-ADR		NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS								
Section 15 Regulatory information										
◆	International chemical inventory									
	Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
	H ₂ O	√	√	√	√	√	√	√	√	√
	SiO ₂	√	√	√	√	√	√	√	√	√
	Al ₂ O ₃	√	√	√	√	√	√	√	√	√
	(C ₆ H ₁₀ O ₅) _n	√	√	√	√	√	√	√	√	×
	H(OCH ₂ CH ₂) _n OH	√	√	√	√	√	√	√	√	√
<p>【EINECS】 European Inventory of Existing Commercial Chemical Substances</p> <p>【TSCA】 United States Toxic Substances Control Act Inventory</p> <p>【DSL】 Canadian Domestic Substances List</p> <p>【IECSC】 China Inventory of Existing Chemical Substances</p> <p>【NZIoC】 New Zealand Inventory of Chemicals</p> <p>【PICCS】 Philippines Inventory of Chemicals and Chemical Substances</p> <p>【KECI】 Existing and Evaluated Chemical Substances</p> <p>【AIICS】 Australia Inventory of Chemical Substances</p> <p>【ENCS】 Japan Inventory of Existing & New Chemical Substances</p> <p>Note :</p> <p>"√" Indicates that the substance included in the regulations</p> <p>"×" That no data or included in the regulations</p>										
Section 16 Additional Information										
◆	Information on revision									
Creation Date		2025/03/07								
Revision Date		-								
Reason for revision		-								

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References

- 【1】 IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- 【2】 IARC, website: <http://www.iarc.fr/>.
- 【3】 OECD: The Global Portal to Information on Chemical Substances, website:
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
- 【4】 CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- 【5】 NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- 【6】 EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- 【7】 U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- 【8】 Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	ICAO-International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
ECX	Effective Concentration X%	vPvB	vPvB -High very Persistent, High very Bioaccumulative
P _{OW}	Partition coefficient Octanol:Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor (BCF)	RPE	Respiratory Protective Equipment
ED	Endocrine disruptors		

Disclaimer

This Safety Data Sheet (SDS) The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product, This report may not be published as an advertisement without the approval of the Foshan Ceramics Research Institute Testing Co.,Ltd. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is illegal and the offender may be prosecuted to the fullest extent of the law.In case of any different meanings from the language used in the report, the Chinese version is applicable.